

A REVISED CHECKLIST OF THE TASMANIAN LICHEN FLORA

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ABSTRACT

Kantvilas, Gintaras. A revised checklist of the Tasmanian lichen flora. *Muelleria* **8(2): 155–175 (1994)**. — A total of 762 taxa of lichens and lichenicolous fungi in 210 genera are recorded from Tasmania and its offshore islands. A revised list of names of taxa deleted from the census is provided. Seventeen species represent new records for Tasmania.

INTRODUCTION

Ongoing research on the lichen flora of Tasmania and nearby regions has led to the description of many new taxa, the clarification of many others and the discovery of numerous previously unrecorded species. This increase in knowledge of the island's flora and the growing interest in its conservation status has hastened the need for a revision of the previous checklist of Tasmanian lichens (Kantvilas 1989).

The present paper lists 762 taxa in 210 genera, including 33 taxa whose Tasmanian distribution is confined to the Bass Strait Islands. A further 97 names, mainly synonyms or misidentifications, are deleted from the Tasmanian census.

Literature pertaining to Tasmanian lichens (see also McCarthy 1992) was reviewed briefly by Wetmore (1963) and subsequently by Kantvilas (1989). Since that time, new taxa from Tasmania have been described in the genera *Arthonia* (Kantvilas & Vězda 1992, Wedin 1993a), *Arthothelium* (Kantvilas & Vězda 1992), *Austropeltum* (Henssen *et al.* 1992), *Bactrospora* (Egea & Torrente 1993), *Canoparmelia* (Elix 1993), *Chiodecton* (Thor 1990), *Dibaeis* (Gierl & Kalb 1993), *Diploicia* (Elix *et al.* 1988), *Gyalideopsis* (Kantvilas & Vězda 1992), *Hypogymnia* (Elix & Jenkins 1989), *Laurera* (McCarthy & Kantvilas 1993a), *Lecanactis* (Kantvilas & Vězda 1992), *Leptogium* (Verdon 1990), *Micarea* (Coppins & Kantvilas 1990), *Menegazzia* (James & Galloway 1992), *Neofuscelia* (Kantvilas & Elix 1992), *Pannaria* and *Parmeliella* (Jørgensen & Galloway 1992), *Pertusaria* (Kantvilas 1990b, Archer 1991a, Archer & Elix 1992), *Porina* (McCarthy 1990, 1993b, McCarthy & Kantvilas 1993b), *Roccellinastrum* (Kantvilas 1990a), *Sphaerophorus* (Kantvilas & Wedin 1992), *Thelenella* (Mayrhofer & McCarthy 1991), *Siphulastrum* (Jørgensen & Galloway 1992), *Siphulella* (Kantvilas *et al.* 1992), *Usnea* (Stevens 1992), *Verrucaria* (McCarthy 1991a) and *Xanthoparmelia* (Elix 1993).

Regional or world monographs with relevance to Tasmania have been completed for *Bactrospora* (Egea & Torrente 1993), *Endocarpon* (McCarthy 1991b), *Fuscoderma* (Jørgensen & Galloway 1989), *Leproloma* (Laundon 1989), *Lithographa* and *Rimularia* (Hertel & Rambold 1990), *Degelia* (Jørgensen & James 1990), *Rimelia* (Hale & Fletcher 1990), *Rimeliella* (Kurokawa 1991), *Toninia* (Timdal 1991) and *Xanthoparmelia* (Hale 1990).

Nomenclatural changes and revisions of taxa occurring in Tasmania have also occurred in the genera *Bacidia* (Kantvilas 1993, Kantvilas & Jarman 1993), *Cladonia* (Ahti *et al.* 1990), *Cladina* (Ruoss & Ahti 1989), *Hafellia* (Sheard 1992), *Pertusaria* (Archer 1991b, Archer & Elix 1992), *Pyrrhospora* (Kalb & Hafellner 1992), *Microthelia* (Hawksworth 1985a), *Pyrgillus* (Aptroot 1991) and *Usnea* (Rogers & Stevens 1988). In addition, taxa previously placed in the genus *Sphaerophorus* have been assigned to *Bunodophoron* or *Leifidium* (Wedin 1993b).

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New records from Tasmania have been published by McCarthy (1991c, 1993a, 1993b), Kantvilas & Jarman (1991, 1993), Kantvilas (1991), Vězda (1992), Kantvilas & Elix (1992), Kantvilas & James (1991), Kantvilas & Thor (1993), Hertel (1987, 1989, 1990), Verdon (1990, 1992), Archer (1989, 1991b, 1991c, 1992a), James & Galloway (1992) and Jørgensen & Galloway (1992).

This checklist also includes some non-lichenised fungi which have been associated with the lichens taxonomically or ecologically, for example *Biatoropsis*, *Cornutispora*, *Dactylospora*, *Globosphaeria*, *Lichenothelia*, *Plectocarpon*, *Polycoccum*, *Rhynchoneliola*, *Stromatopogon* and members of the Caliciales. Contributions in these groups have been published by Triebel (1989), Henssen & Kantvilas (1985), Hawksworth (1985b, 1990), Gierl & Kalb (1993) and Diederich (1992).

The following taxa are recorded for Tasmania for the first time in the present paper (see Appendix 1):

Arthroraphis grisea Th. Fr., *Biatoropsis usnearum* Räsänen, *Buellia punctata* (Hoffm.) Massal., *Candelariella xanthostigmoides* (Müll.Arg.) R.W.Rogers, *Cladonia subsubulata* Nyl., *Collema fasciculare* var. *microcarpum* (Müll.Arg) Degelius, *Massalongia carnososa* (Dickson) Körber, *Omphalina umbellifera* (L. ex Fr.) Quélet, *Pannaria subimmixta* Knight, *Rinodina pyrina* (Ach.) Arn., *Sphaerophorus tibellii* Wedin, *Usnea confusa* Asahina, *U. nidulifera* Motyka, *U. oncodes* Stirton, *U. pycnoclada* Vainio, *U. subceciliata* (Motyka) Swinsc. & Krog and *U. undulata* Stirton.

These are based on the author's collections, collections of other lichenologists, including A.Aptroot, the late G.C.Bratt and H.Mayrhofer, studies of herbarium material, and the unpublished revisionary work of G.N.Stevens.

METHODS

As with the previous census (Kantvilas 1989), names based on a type specimen from Tasmania are indicated in **bold** type. Those whose known Tasmanian distribution is confined to the Bass Strait islands and which have not been recorded from the Tasmanian 'mainland' are enclosed in square brackets. Non-lichenised fungi are preceded by an asterisk. Names which are based on uncertain, mainly nineteenth century literature records are followed by a (+).

The list of deleted names and justifications for the deletions includes names based on a Tasmanian type specimen, plus any names excluded since the list of Kantvilas (1989).

CHECKLIST OF TASMANIAN LICHENS AND ALLIED FUNGI

- | | |
|---|---|
| <i>Acarospora citrina</i> (Taylor) Zahlbr. ex Rech. | <i>Arthopyrenia anisoloba</i> Müll.Arg. |
| <i>A. tasmanica</i> Räsänen | <i>Arthothelium ampliatum</i> (Knight & Mitten) Müll.Arg. |
| <i>Alectoria nigricans</i> (Ach.) Nyl. | <i>A. interveniens</i> (Nyl.) Zahlbr. |
| <i>Arthonia apteropteridis</i> Kantvilas & Vězda | <i>A. macrothecium</i> (Fée) Massal. (+) |
| <i>A. cinereopruinosa</i> Schaerer s.lat. | <i>A. subspectabile</i> Vězda & Kantvilas |
| <i>A. cinnabarina</i> (DC.) Wallr. (+) | <i>Arthrorhaphis alpina</i> (Schaerer) R. Sant. |
| <i>A. ilicina</i> Taylor | <i>A. citrinella</i> (Ach.) Poelt |
| <i>A. miserula</i> Nyl. (+) | <i>A. grisea</i> Th. Fr. |
| <i>A. pseudocyphellariae</i> Wedin | <i>Austroblastenia pauciseptata</i> (Shirley) Sipman |
| <i>A. radiata</i> (Pers.) Ach. (+) | <i>A. pupa</i> Sipman |
| <i>A. sagenidii</i> Vězda & Kantvilas | |
| <i>A. tasmanica</i> Kantvilas & Vězda | |

- Austropeltum glareosum* Henssen,
Döring & Kantvilas
- Bacidia albidoplumbea* (J.D. Hook. &
Taylor) Hellbom
- B. buchananii* (Stirton) Hellbom
- B. leucocarpa* Knight (+)
- B. vallatula* (Jatta) Kantvilas**
- Bactrospora arthonioides* Egea &
Torrente**
- Baeomyces heteromorphus* Nyl. ex
Church, Bab. & Mitten**
- Bellemerea alpina* (Sommerf.) Clauz.
& Roux
- **Biatoropsis usnearum* Räsänen
- Blastenia carnella* (Nyl.) Müll.Arg. (+)
- B. pulcherrima* Müll.Arg.
- [*Buellia coniops* (Wahlenb. ex Ach.)
Th.Fr.] (+)
- B. disciformis* (Fr.) Mudd
- B. levieri* Jatta**
- B. punctata* (Hoffm.) Massal.
- [*B. subalbula* (Nyl.) Müll.Arg.] (+)
- Bunodophoron australe* (Laurer)
Massal.
- B. flaccidum* (Kantvilas & Wedin)
Wedin**
- B. inshaugii* (Ohlsson) Wedin
- B. insigne* (Laurer) Wedin
- B. macrocarpum* (Ohlsson) Wedin
- B. murrayi* (Ohlsson) Wedin
- B. notatum* (Tibell) Wedin
- B. patagonicum* (Dodge) Wedin
- B. ramuliferum* (Lamb) Wedin
- B. scrobiculatum* (Church, Bab.)
Wedin
- B. tibellii* (Wedin) Wedin
- Byssoloma subdiscordans* (Nyl.)
P.James
- Calicium abietinum* Pers.
- C. adpersum* Pers. ssp. *australe* Tibell**
- C. glaucellum* Ach.
- C. salicinum* Pers.
- C. trabinellum* (Ach.) Ach.
- C. tricolor* F.Wilson
- C. victorianum* (F.Wilson) Tibell ssp.
victorianum
- Caloplaca aurantiaca* (Lightf.) Th.Fr.
f. *lignicola* (Nyl.) Th.Fr. (+)
- C. cerinella* (Nyl.) Flagey (+)
- C. chrysophthalma* Degelius (+)
- C. cinnabarina* (Ach.) Zahlbr. (+)
- C. citrina* (Hoffm.) Th.Fr. (+)
- C. cribrosa* (Hue) Zahlbr.**
- C. ferruginea* (Huds.) Th.Fr. (+)
- C. flavorubescens* (Huds.) Laundon
(+)
- C. holocarpa* (Hoffm.) Wade (+)
- C. rugulosa* (Nyl.) Zahlbr. (+)
- C. saxicola* (Hoffm.) Nordin (+)
- C. sublobulata* (Nyl.) Zahlbr. (+)
- Candelaria concolor* (Dickson)
B.Stein
- Candelariella xanthostigmoides*
(Müll.Arg.) R.W.Rogers
- Canoparmelia norpruinata* Elix &
Johnston
- [***C. whinrayi* Elix**]
- Carbonea vorticosa* (Flörke) Hertel
- Catapyrenium lachneum* (Ach.)
R.Sant.
- Catillaria contristans* (Nyl.) Zahlbr.
- C. kelica* (Stirton) Zahlbr.
- C. pulverea* (Borrer) Lettau
- C. tasmanica* Räsänen**
- C. trachonoides* (Nyl.) Zahlbr. (+)
- C. umbratilis* Jatta**
- Catinaria laureri* (Hepp ex Th.Fr.)
Degelius
- Cetraria aculeata* (Schreb.) Fr.
- C. australiensis* W.Weber ex
Kärnefelt
- C. islandica* (L.) Ach. ssp. *antarctica*
Kärnefelt
- Chaenotheca brachypoda* (Ach.) Tibell
- C. brunneola* (Ach.) Müll.Arg.
- C. carthusiae* (Harm.) Lettau
- C. chlorella* (Ach.) Müll.Arg.
- C. ferruginea* (Turn. ex Smith)
Migula
- C. gracillima* (Vainio) Tibell
- C. hispidula* (Ach.) Zahlbr.
- C. stemonea* (Ach.) Müll.Arg.
- C. trichialis* (Ach.) Th.Fr.
- **Chaenothecopsis debilis* (Turn. ex
Borrer) Tibell
- **C. haematopus* Tibell
- **C. nigra* Tibell
- **C. pusilla* (Ach.) A.Schmidt
- **C. sagenidii* Tibell
- **C. savonica* (Räsänen) Tibell
- ****C. tasmanica* Tibell**
- **C. viridireagens* (Nádv.) A.Schmidt

- Chiodecton colensoi* (Massal.)
 Müll.Arg.
C. flavovirens Thor
C. montanum Thor
Chroodiscus megalophthalmus
 (Müll.Arg.) Vězda & Kantvilas
Chrysothrix candelaris (L.) Laundon
Cladia aggregata (Sw.) Nyl.
C. fuliginosa Filson
C. inflata (F.Wilson) D.Galloway
C. moniliformis Kantvilas & Elix
C. retipora (Labill.) Nyl.
C. schizopora (Nyl.) Nyl.
C. sullivanii (Müll.Arg.) Nyl.
Cladina confusa (R.Sant.) Follm. &
 Ahti
C. mitis (Sandst.) Hustich
C. tasmanica (Ahti) Ahti
Cladonia angustata Nyl.
C. bimberiensis Archer
C. capitellata (J.D.Hook. & Taylor)
 Church.Bab. var. *capitellata*
C. capitellata var. *interhiascens* (Nyl.)
 Sandst.
C. capitellata var. *squamatica* Archer
C. cervicornis (Ach.) Flotow ssp.
verticillata (Hoffm.) Ahti
C. chlorophaea (Flörke) Sprengel
C. corniculata Ahti & Kashiwadani
C. cornuta (L.) Hoffm.
C. crispata (Ach.) Flotow var.
ctrariiformis (Delise) Vainio
C. cryptochlorophaea Asahina
C. ecmocyna Leighton
C. enantia Nyl.
C. fimbriata (L.) Fr.
C. floerkeana (Fr.) Flörke
C. furcata (Huds.) Schrader
C. gracilis (L.) Willd. ssp. *tenerrima*
 Ahti
C. humilis (With.) Laundon var.
humilis
C. humilis var. *bourgeanica* Archer
C. krempelhuberi Vainio
C. kuringaiensis Archer
C. macilenta Hoffm.
C. merochlorophaea Asahina
C. murrayi W.Martin
C. neozelandica Vainio
C. ochrochlora Flörke
C. paeminosa Archer
C. pertriosa Krempelh.
C. pleurota (Flörke) Schaerer
C. praetermissa Archer var.
praetermissa
C. praetermissa var. *modesta* (Ahti &
 Krog) Kantvilas & Archer
C. pyxidata (L.) Hoffm.
C. ramulosa (With.) Laundon
C. rigida (J.D.Hook. & Taylor)
 Hampe var. *rigida*
C. rigida var. *acuta* (Taylor) Archer
C. sarmentosa (J.D.Hook. & Taylor)
 Dodge
C. scabriuscula (Delise) Leighton
C. southlandica W.Martin
C. staufferi des Abb.
C. subsubulata Nyl.
C. sulcata Archer var. *sulcata*
C. sulcata var. *wilsonii* (Archer)
 Archer
C. tessellata Ahti & Kashiwadani
C. ustulata (J.D.Hook & Taylor)
 Leighton
C. weymouthii F. Wilson ex Archer
Cliostomum griffithii (Sm.) Coppins
Coccocarpia erythroxyli (Sprengel)
 Swinsc. & Krog
C. palmicola (Sprengel) Arvidsson &
 Galloway
Coccotrema cucurbitula (Mont.) Müll.
 Arg.
C. porinopsis (Nyl.) Imshaug ex
 Yoshimura
Coenogonium implexum Nyl.
Collema coccophorum Tuck.
C. crispum (Huds.) Weber
C. durietzii Degelius
C. fasciculare (L.) Wigg. var.
fasciculare
C. fasciculare var. *colensoi*
 Church.Bab.
C. fasciculare var. *microcarpum*
 (Müll. Arg.) Degelius
C. flaccidum (Ach.) Ach.
C. glaucophthalmum Nyl. var.
glaucophthalmum
C. glaucophthalmum var. *implicatum*
 (Nyl.) Degelius
C. laeve J.D.Hook. & Taylor var.
laeve
C. laeve var. *senecionis* (F.Wilson)
 Degelius
C. leucocarpum J.D.Hook. & Taylor
C. quadriloculare F.Wilson var.
quadriloculare

C. quadriloculare var. tasmaniae

F. Wilson

C. subconveniens Nyl.*C. subflaccidum* Degelius**Conotremopsis weberiana** Vězda***Cornutispora ciliata** Kalb*Cystocoleus ebeneus* (Dillwyn)
Thwaites***Dactylospora australis** Triebel &
Hertel*Degelia duplomarginata* (P. James &
Henssen) Arvidsson & Galloway*D. durietzii* Arvidsson & Galloway*D. gayana* (Mont.) Arvidsson &
Galloway*D. novaezelandiae* (Dodge) Jørgensen
& Galloway*D. rosulata* Jørgensen & Galloway*Dendriscoaulon dendriothamnoides*
Dughi in Galloway*Dibaeis absoluta* (Tuck.) Kalb & Gierl*D. arcuata* (Stirton) Kalb & Gierl*Dictyonema sericeum* (Sw.) Berkley*Dimerella lutea* (Dickson) Trevisan*Diploicia canescens* (Dickson) Massal.
ssp. *canescens*[*D. canescens* ssp. *australasica* Elix &
Lumbsch]*Diploschistes muscorum* (Scop.)R. Sant. ssp. *bartlettii* Lumbsch*D. ocellatus* (Vill.) Norman*D. scruposus* (Schreber) Norman*D. sticticus* (Körber) Müll. Arg.[*Diplotomma alboatrum* (Hoffm.)
Flotow (+)]*Dirinaria picta* (Sw.) Clem. & Shear*Endocarpon helmsianum* Müll. Arg.*E. simplicatum* (Nyl.) Nyl. var.*simplicatum**E. simplicatum* var. *bisporum*

McCarthy

Ephebe fruticosa Henssen*E. lanata* (L.) Vainio*Eremastrella crystallifera* (Taylor)

G. Schneider

Erioderma sorediatum Galloway &
Jørgensen[*Flavoparmelia euplecta* (Stirton)
Hale]*F. haysomii* (Dodge) Hale**F. rutidota** (J.D. Hook. & Taylor) Hale[*F. soredians* (Nyl.) Hale]*Fulgensia fulgens* (Sw.) Elenkin (+)*F. subbracteata* (Nyl.) Poelt (+)*Fuscidea absolodes* (Nyl.) Hertel &
Wirth*Fuscoderma amphibolum* (Knight)
Jørgensen & Galloway*F. limbatum* Jørgensen & Galloway***Globosphaeria jamesii** D. Hawksw.*Graphina subvelata* (Stirton) Zahlbr.*Graphis angustata* Eschw. (+)*G. insidiosa* (Knight & Mitten)
J.D. Hook.*G. librata* Knight*Gyalecta jenensis* (Batsch) Zahlbr. (+)*Gyalidea hyalinescens* (Nyl.) Vězda**Gyalideopsis graminicola** Vězda &
Kantvilas*Haematomma infuscum* (Stirton)
R.W. Rogers*H. sorediatum* R.W. Rogers**Hafellia dissa** (Stirton) Mayrhofer &
Sheard*Heterodea muelleri* (Hampe) Nyl.*Heterodermia comosa* (Eschw.) Follm.
& Redon (+)[*H. hypoleuca* (Ach.) Trevisan (+)][*H. japonica* (Sato) Swinsc. & Krog (+)]*H. microphylla* (Kurok.) Swinsc. &
Krog*H. obscurata* (Nyl.) Trevisan*H. speciosa* (Wulf.) Trevisan (+)*Hymenelia lacustris* (With.) M. Choisy*Hyperphyscia adglutinata* (Flörke)
Mayrhofer & Poelt*Hypocenomyce australis* Timdal*H. foveata* Timdal**Hypogymnia billardierei** (Mont.)
Filson*H. enteromorphoides* Elix*H. kosciuskoensis* Elix*H. lugubris* (Pers.) Krog var. *lugubris*

- H. lugubris* var. *compactior* (Zahlbr.) Elix
H. lugubris var. *sublugubris* (Müll.Arg.) Elix
H. mundata (Nyl.) **Rassad.**
H. pulchrilobata (Bitter) Elix
H. pulverata (Nyl.) Elix
H. subphysodes (Krempelh.) Filson var. *subphysodes*
H. subphysodes var. *austerodioides* Elix
H. tasmanica Elix
H. tubularis (Taylor) Elix
H. turgidula (Bitter) Elix

Hypotrachyna laevigata (Sm.) Hale (+)
H. reducens (Nyl.) Hale
H. revoluta (Flörke) Hale
H. sinuosa (Sm.) Hale

Imshaugia aleurites (Ach.) S.F.Meyer

Knightiella splachnirima (J.D.Hook. & Taylor) Gyelnik

Laurera robusta McCarthy & Kantvilas

Lecanactis abietina (Ach.) Körber
L. subfarinosa (Knight) Hellbom (+)
L. subpremnea Kantvilas & Vězda

Lecanora atrella Jatta
L. austrooceana Hertel & Leuckert
L. blanda Nyl.
L. broccha Nyl.
L. caesiorubella Ach. (+)
L. carpinea (L.) Vainio (+)
L. cenisia Ach. (+)
L. crenulata (Dickson) Hook.
L. lineolata Müll.Arg. (+)
L. rupicola (L.) Zahlbr.
[*L. subcoarctata* (Knight) Hertel]
L. subfusca (L.) Ach. (+)
[*L. varia* (Hoffm.) Ach. (+)]

Lecidea aniptiza Stirton f. *intersociella* Stirton
L. atomorio Knight
L. canorufescens Krempelh. (+)
L. cerarufa Shirley
L. contigua Fr. (+)
L. enteroleuca Ach. (+)
L. flindersii Crombie
L. hypersporella Sirton
L. hypnorum Libert (+)
L. immarginata R.Br. ex Crombie
L. lapicida (Ach.) Ach. var. *lapicida*
L. leptoloma Müll.Arg. (+)
L. minutula Müll.Arg. (+)
- L. sarcogynoides* Körber
L. stuartii Hampe
L. subnexa Stirton
L. subtectata Stirton
L. turgidula Fr. (+)

Lecidella stigmatea (Ach.) Hertel & Leuckert

Leifidium tenerum (Laurer) Wedin

Leioderma duplicatum (Müll. Arg.) Galloway & Jørgensen
L. pycnophorum Nyl.
L. sorediatum Galloway & Jørgensen

Lepraria incana (L.) Ach.
L. lobificans Nyl.

Leprocaulon arbuscula (Nyl.) Nyl.
L. microscopicum (Vill.) Gams ex D. Hawksw.

Leptoloma membranaceum (Dickson) Vainio
L. vouauxii (Hue) Laundon

Leptogium biloculare F.Wilson
L. coralloideum (Mey. & Flotow) Vainio
L. crispatellum Nyl.
L. cyanescens (Ach.) Körber
L. limbatum F.Wilson
L. menziesii (Sm. ex Ach.) Mont.
L. pecten F.Wilson
L. philorheuma F.Wilson
L. rogersii Verdon
L. tasmanicum F.Wilson
L. victorianum F.Wilson

Leptotrema lepadodes (Tuck.) Zahlbr. (+)
L. lepadodes var. *endochrysoides* (Jatta) Zahlbr.

[**Lichenothelia solitarioides* Henssen]

Lichina confinis (O.F. Müll.) Agardh
L. tasmanica Henssen

Lithographa subantarctica Hertel & Rambold

Lobaria scrobiculata (Scop.) DC.

Lopadium biferum (Nyl.) Zahlbr. (+)
L. disciforme (Flotow) Poelt & Vězda
L. hepaticola Döbbeler, Vězda & Poelt

Maronea constans (Nyl.) Hepp

Massalongia carnosa (Dickson) Körber

- Megalalaria grossa* (Pers. ex Nyl.)
Hafellner
- Megaloblastenia marginiflexa*
(J.D.Hook. & Taylor) Sipman
- Megalospora campylospora* (Stirton)
Sipman
- M. gompholoma* (Müll.Arg.) Sipman
ssp. *fuscolineata* Sipman
- M. lopadioides* Sipman**
- M. subtuberculosa* (Knight) Sipman
- Melampilidium metabolum* (Nyl.)
Müll.Arg. (+)
- Melanelia piliferella* (Esslinger)
Esslinger
- M. subglabra* (Räsänen) Esslinger
- Melaspilea circumserpens* Nyl.**
- M. gemella* (Eschw.) Nyl. (+)
- Menegazzia aeneofusca* (Müll.Arg.)
R.Sant.
- M. caesiopruinosa* P.James**
- M. caliginosa* P.James & Galloway
- M. castanea* P.James & Galloway
- M. confusa* P.James**
- M. corrugata* P.James**
- M. elongata* P.James**
- M. eperforata* P.James & Galloway
- M. fertilis* P.James
- M. globulifera* R.Sant.
- M. inactiva* P.James & Kantvilas**
- M. kantvilasii* P.James**
- M. minuta* P.James & Kantvilas**
- M. myriotrema* (Müll.Arg.) P.James**
- M. neozelandica* (Zahlbr.) P.James**
- M. nothofagi* (Zahlbr.) P.James &
Galloway
- M. platytrema* (Müll.Arg.) R.Sant.
- M. prototypica* P.James**
- M. subbullata* P.James & Kantvilas**
- M. subpertusa* P.James & Galloway
- M. testacea* P.James & Galloway
- M. ultralucens* P.James & Galloway
- M. weindorferi* (Zahlbr.) R.Sant.**
- Metus conglomeratus* (F.Wilson)
Galloway
- Micarea austroternaria* Coppins &
Kantvilas**
- M. flagellispora* Coppins & Kantvilas**
- M. isabellina* Coppins & Kantvilas**
- M. mutabilis* Coppins & Kantvilas**
- M. prasina* Fr.
- M. prasinella* (Jatta) Lamb**
- **Microcalicium arenarium* (Hampe ex
Massal.) Tibell**
- **M. conversum* Tibell**
- Miltidea ceroplasta* (Church.Bab.)
Galloway & Hafellner
- Multiclavula mucida* (Pers.)
R.H.Petersen
- M. vernalis* (Schw.) R.H.Petersen
- **Mycocalicium albonigrum* (Nyl.)
Tibell**
- **M. subtile* (Pers.) Szatala**
- **M. victoriae* (Knight ex F.Wilson)
Tibell**
- Mycoporellum obscurum* (Pers.)
A.L.Smith (+)
- [*Neofuscelia glabrans* (Nyl.) Esslinger]
- N. imitatrix* (Taylor) Esslinger
- N. loxodella* (Esslinger) Esslinger**
- N. parviloba* (Esslinger) Esslinger
- N. pulla* (Ach.) Esslinger
- N. stygiodes* (Nyl. ex Crombie)
Esslinger
- N. subloxodella* Elix & Kantvilas**
- N. verrucella* (Esslinger) Esslinger
- Neophyllis melacarpa* (F.Wilson)
F.Wilson
- Nephroma australe* Richard
- N. cellulorum* (Ach.) Ach. var.
cellulosum
- N. cellulorum* var. *isidioferum*
J.Murray
- N. rufum* (Church.Bab.) P.James
- Normandina pulchella* (Borrer) Nyl.
- Ochrolechia androgyna* (Hoffm.) Arn.
- O. frigida* (Sw.) Lynge
- O. pallescens* (L.) Massal. (+)
- O. parella* (L.) Massal. (+)
- O. weymouthii* Jatta**
- Omphalina umbellifera* (L. ex Fr.)
Quélet
- Opegrapha agelaeina* Jatta**
- O. agelaeoides* Nyl.
- O. stellata* Knight
- O. viridis* Pers. ex Ach.
- Pannaria decipiens* Jørgensen &
Galloway
- P. elixii* Jørgensen & Galloway
- P. fulvescens* (Mont.) Nyl.
- P. immixta* Nyl.

- P. subimmixta* Knight
Pannoparmelia angustata (Pers. in Gaud.) Zahlbr.
P. wilsonii (Räsänen) Galloway
Paraparmelia conranensis (Elix) Elix & Johnston
P. lithophiloides (Kurok.) Elix & Johnston
 [*P. mongaensis* (Elix) Elix & Johnston]
***Paraporphidia leptocarpa* (Church.Bab. & Mitten) Rambold & Hertel**
Parmelia cunninghamii Crombie
P. erumpens Kurok.
P. protosulcata Hale
P. salcrambidiocarpa Hale
P. signifera Nyl.
P. sulcata Taylor
***P. tenuirima* J.D.Hook. & Taylor**
P. testacea Stirton
Parmeliella granulata Lamb
P. ligulata Jørgensen & Galloway
P. nigrocincta (Mont.) Müll.Arg.
P. thysanota (Stirton) Zahlbr.
Parmelina conlabrosa (Hale) Elix & Johnston
P. labrosa (Zahlbr.) Elix & Johnston
***P. pseudorelicina* (Jatta) Kantvilas & Elix**
Parmelinopsis afrorevoluta (Krog & Swinsc.) Elix & Hale
P. horrescens (Taylor) Elix & Hale (+)
P. minarum (Vainio) Elix & Hale
P. neodamaziana (Elix & Johnston) Elix & Hale
P. spumosa (Asahina) Elix & Hale (+)
P. subfatiscens (Kurok.) Elix & Hale
Parmeliopsis ambigua (Wulf.) Nyl.
Parmotrema chinense (Osbeck) Hale & Ahti
 [*P. cristiferum* (Taylor) Hale]
Peltigera canina (L.) Willd.(+)
P. canina f. *leucorhiza* (Flörke) Flörke (+)
***P. degenii* Gyelnik f. *tasmaniae* Gyelnik**
P. didactyla (With.) Laundon
P. dolichorhiza (Nyl.) Nyl.
P. horizontalis (Huds.) Baumg. (+)
P. membranacea (Ach.) Nyl. (+)
P. polydactyla (Neck.) Hoffm. (+)
P. pusilla (Fr.) Körber (+)
P. rufescens (Weis) Humb. (+)
Peltula euploca (Ach.) Poelt ex Ozenda & Clauz.
Pertusaria alpina Hepp ex Ahles (+)
 [*P. erythrella* Müll.Arg.]
***P. gibberosa* Müll.Arg.**
***P. gymnospora* Kantvilas**
***P. jamesii* Kantvilas**
 [*P. leioplacella* Nyl.]
P. lophocarpa Körber
***P. norstictica* Archer**
P. novaezelandiae Szatala
***P. pertractata* Stirton**
***P. pseudodactylina* Archer**
 [*P. subdactylina* Nyl.]
 [*P. thiospoda* Knight]
P. trimera (Müll.Arg.) Archer
P. truncata Krempelh.
[*P. whinrayi* Archer]
P. xanthostoma (Somm.) Fr.
Phaeographis australiensis Müll.Arg.
P. exaltata (Mont. & v.d. Bosch) Müll.Arg.
Phaeophyscia endococcinodes (Poelt) Esslinger
P. orbicularis (Neck.) Moberg
Phlyctis subuncinata Stirton
Physcia adscendens (Fr.) Oliver
P. aipolia (Ehrh. ex Humb.) Fűrnr. (+)
 [*P. alba* (Fée) Müll.Arg. (+)]
P. albata (F.Wilson) Hale (+)
 [*P. albicans* (Pers.) Thomson (+)]
P. caesia (Hoffm.) Fűrnr.
P. clementei (Sm.) Lyng
P. stellaris (L.) Lyng
 [*P. tribacia* (Ach.) Nyl. (+)]
Physconia grisea (Lam.) Poelt (+)
Physma chilense Hue
Placopsis cribellans (Nyl.) Räsänen
P. gelida (L.) Lindsay
P. parellina (Nyl.) Lamb
P. parellina f. *microphylla* Lamb
P. perrugosa (Nyl.) Nyl.
P. rhodocarpa (Nyl.) Wetmore
P. trachyderma (Krempelh.) P.James
 var. *clavifera* (Lamb) P.James
Placynthium nigrum (Huds.) S.F.Gray
***Platygrapha congerens* Nyl.**

- **Plectocarpon pseudosticta* (Fée) Fée
- Poeltiaria coromandelica* (Zahlbr.)
Hertel & Rambold
- P. corralensis* (Räsänen) Hertel
- P. turgescens* (Körper) Hertel
- Polychidium contortum* Henssen
- **Polycoccum jamesii* D.Hawksw.
- Porina aptrootii* McCarthy
- P. chlorotica* (Ach.) Müll. Arg.
- P. constrictospora* McCarthy &
Kantvilas
- P. corrugata* Müll.Arg.
- P. decrescens* McCarthy & Kantvilas
- P. elegantula* Müll.Arg.
- P. guentheri* (Flotow) Zahlbr.
- P. heterocarpa* McCarthy
- P. hyperleptalea* McCarthy &
Kantvilas
- P. kantvilasii* McCarthy
- P. leptalea* (Durieu & Mont.)
A.L.Smith
- P. sylvatica* McCarthy & Kantvilas
- P. tasmanica* McCarthy
- [*P. whinrayi* McCarthy]
- Porpidia albocaerulescens* (Wulfen)
Hertel & Knoph
- P. crustulata* (Ach.) Hertel & Knoph
- Protoblastenia rupestris* (Scop.)
Steiner
- Protoparmelia badia* (Hoffm.)
Hafellner
- P. petraeoides* (Nyl. ex Hue) Hertel
- Pseudophebe pubescens* (L.) Choisy
- Pseudocyphellaria ardesiaca* Galloway
- P. argyrea* (Delise) Vainio
- P. aurata* (Sm.) Vainio
- P. billardierei* (Delise) Räsänen
- P. colensoi* (Church.Bab.) Vainio
- P. coronata* (Müll.Arg.) Malme
- P. crocata* (L.) Vainio
- P. dissimilis* (Nyl.) Galloway &
P.James
- P. faveolata* (Delise) Malme
- P. glabra* (J.D.Hook. & Taylor)
Dodge
- P. granulata* (Church.Bab.) Malme
- P. insculpta* (Stizenb.) Galloway
- P. intricata* (Delise) Vainio
- P. multifida* (Nyl.) Galloway &
P.James
- P. neglecta* (Müll.Arg.) Magnusson
- P. rubella* (J.D.Hook. & Taylor)
Galloway & P.James
- Psilolechia clavulifera* (Nyl.) Coppins
- P. lucida* (Ach.) Choisy
- P. purpurascens* Coppins & Purvis
- Psora decipiens* (Hedw.) Hoffm. (+)
- Psoroma allorhizum* (Nyl.) Hue (+)
- P. asperellum* Nyl.
- P. durietzii* P. James & Henssen
- P. euphyllum* Nyl.
- P. hypnorum* (Vahl) S.F. Gray var.
hypnorum
- P. hypnorum* var. *paleaceum* (Fr.)
Rostrup
- P. leprolomum* (Nyl.) Räsänen
- P. microphyllizans* (Nyl.) Galloway
- P. pallidum* Nyl. (+)
- P. pholidotoides* (Nyl.) Trevis.
- P. pholidotum* (Mont.) Müll.Arg.(+)
- P. soccatum* R.Br.
- P. xanthomelanum* Nyl. (+)
- Psoromidium aleuroides* (Stirton)
Galloway
- P. versicolor* (J.D.Hook. & Taylor)
Galloway
- Punctelia borreri* (Sm.) Krog
- P. subflava* (Taylor) Elix & Johnston
- P. subrudecta* (Nyl.) Krog
- Pycnothelia caliginosa* Galloway &
P.James
- Pyrenocollema halodytes* (Nyl.)
R.C.Harris
- Pyrenopsis tasmanica* Nyl.
- Pyrenula chloroplaca* Shirley
- P. galactina* (Shirley) Kantvilas
- P. marginata* J.D.Hook.
- P. ravenellii* (Tuck.) R.C.Harris
- Pyrgillus indicus* (Krempelh.) Aptroot
- Pyrrhospora laeta* (Stirton) Hafellner
- Pyxine nubila* Moberg
- Ramalea cochleata* Müll.Arg.
- Ramalina caespitella* G.N.Stevens
[*R. canariensis* Steiner]
- R. celastri* (Sprengel) Krog & Swinsc.
ssp. *celastri*
- R. celastri* ssp. *ovalis* (J.D.Hook. &
Taylor) G.N.Stevens

- R. fimbriata* Krog & Swinsc.
R. fissa (Müll.Arg.) Vainio
R. glaucescens Krempelh.
R. inflata (J.D.Hook. & Taylor)
 J.D.Hook. & Taylor ssp. *inflata*
R. inflata ssp. *australis* G.N.Stevens
R. unilateralis F.Wilson
***R. whinrayi* G.N.Stevens**
Ramalodium succulentum Nyl.
Relicina limbata (Laurer) Hale
R. subnigra Elix & Johnston
Rhizocarpon badioatrum (Flörke ex
 Sprengel) Th. Fr. f. *atroalbum*
 (L.) Malme (+)
R. geographicum (L.) DC.
R. petraeum (Wulfen) Massal. (+)
****Rhynchomeliola lichenicola* Henssen
 & Kantvilas**
Rimelia cetrata (Ach.) Hale &
 Fletcher
R. reticulata (Taylor) Hale & Fletcher
Rineliella subcaperata (Krempelh.)
 Kurokawa
Rimularia psephota (Tuck.) Hertel &
 Rambold
***Rinodina asperata* (Shirley) Kantvilas**
R. bischoffii (Hepp) Massal.
***R. brattii* Mayrhofer**
R. conradii Körber
R. exigua (Ach.) S.F.Gray (+)
R. gennarii Bagl.
R. murrayii Mayrhofer
R. occulta (Körber) Sheard
R. peloleuca (Nyl.) Müll.Arg.
R. procellarum (Massal.) Mayrhofer
R. pyrina (Ach.) Arn.
R. subcrustacea (Müll.Arg.) Zahlbr.
***R. tasmanica* Mayrhofer**
R. thiomela (Nyl.) Müll.Arg.
[*Roccellina expectata* Tehler]
***Roccellinastrum flavescens* Kantvilas**
***R. lagarostrobi* Kantvilas**
R. neglectum Henssen & Vobis
Sagenidium molle Stirton
***Sarrameana tasmanica* Vězda &
 Kantvilas**
Scoliosporum pruinatum (P.James)
 Vězda
Siphula complanata (J.D.Hook. &
 Taylor) R.Sant.
S. decumbens Nyl.
***S. foliacea* D.Galloway**
***S. fragilis* (J.D.Hook. & Taylor)
 J.Murray**
***S. jamesii* Kantvilas**
***Siphulastrum granulatum* Jørgensen &
 Galloway**
S. mamillatum (J.D.Hook. & Taylor)
 Galloway
***Siphulella coralloidea* Kantvilas, Elix
 & James**
 **Sphinctrina leucopoda* Nyl.
 **S. tubaeformis* Massal.
Staurothele fissa (Taylor) Zwackh
Stephanocyclos henssenianus Hertel
Stereocaulon caespitosum Redinger
S. corticatulum Nyl. var. *corticatulum*
S. corticatulum var. *humile*
 (Müll.Arg.) Lamb
S. corticatulum var. *subcorticatulum*
 (Räsänen) Lamb
S. gregarium Redinger
S. ramulosum (Sw.) Räscher
***S. trachyphloeum* Lamb**
S. vesuvianum Pers.
Sticta damaecornis (Sw.) Ach. (+)
S. fuliginosa (Dickson) Ach.
S. limbata (Sm.) Ach.
S. macrophylla Delise (+)
S. quercigans Delise (+)
S. stipitata Knight
S. subcaperata (Nyl.) Nyl. (+)
S. sublimbata (Steiner) Swinsc. &
 Krog
S. sylvatica (Huds.) Ach. (+)
S. weigellii (Ach.) Vainio (+)
 **Stromatopogon baldwinii* Zahlbr.
Synalissa cancellata F. Wilson (+)
Teloschistes chrysophthalmus (L.)
 Th.Fr.
 [*T. flavicans* (Sw.) Norm.]
T. sieberianus (Laurer) Hillm.
***T. spinosus* (J.D.Hook. & Taylor)
 J.Murray**
T. spinosus f. *subteres* Filson
T. velifer F.Wilson
 [*T. velifer* f. *nodulosa* (J.Murray)
 Filson]

- Tephromela atra* (Huds.) Hafellner
Thamnotia vermicularis (Sw.) Ach.
 var. *vermicularis*
T. vermicularis var. *subuliformis*
 (Ehrh.) Schaerer
***Thelenella tasmanica* Mayrhofer & McCarthy**
Thelidium papulare (Fr.) Arnold
Thelotrema decorticans Müll.Arg.
T. lepadinum (Ach.) Ach.
T. subdenticulatum (Zahlbr.)
 G.Salisb.
***T. subgranulosum* Jatta**
T. suecicum (H.Magn.) P.James
Thysanothecium hookeri Mont. &
 Berk.
T. scutellatum (Fr.) Galloway
Tomasellia ischnobella (Nyl.) Keissl.
Toninia bullata (Meyen & Flotow)
 Zahlbr.
Trapelia coarctata (Sm.) M.Choisy
T. mooreana (Carroll) P.James
Trapeliopsis colensoi (Church.Bab.)
 G.Schneider
T. congregans (Zahlbr.) Brako
T. flexuosa (Fr.) Coppins & P.James
T. granulosa (Hoffm.) Lumbsch
Tremolecia atrata (Ach.) Hertel
Tuckermannopsis chlorophylla
 (Willd.) Hale
Turgidosculum complicatulum (Nyl.)
 J.Kohlmeyer & E.Kohlmeyer
Tylothallia pahiensis (Zahlbr.) Hertel
 & Kilius
Umbilicaria cylindrica (L.) Delise ex
 Duby
U. hyperborea (Ach.) Hoffm.
U. polyphylla (L.) Baumg.
U. propagulifera (Vainio) Llano
U. subglabra (Nyl.) Harm.
Usnea acromelana Stirton
U. angulata Ach.
U. articulata (L.) Hoffm.
U. baileyi (Stirton) Zahlbr.
U. confusa Asahina
U. inermis Motyka
U. maculata Stirton
U. molliuscula Stirton
U. nidulifera Motyka
U. oncodes Stirton
U. pycnoclada Vainio
U. rubicunda Stirton
***U. scabrida* Taylor ssp. *tayloriana* Stevens**
***U. spilota* Stirton**
U. subcapillaris (Galloway)
 F.J.Walker
U. subciliata (Motyka) Swinsc. &
 Krog
U. torulosa (Müll.Arg.) Zahlbr.
U. undulata Stirton
U. xanthopoga Nyl.
Verrucaria baldensis Massal.
 [*V. dufourii* DC.]
V. maura Wahlenb. ex Ach.
V. microsporoides Nyl.
 [*V. muralis* Ach.]
V. striatula Wahlenb.
***V. subdiscreta* McCarthy**
***V. tessellatuloidea* McCarthy**
***Vezdaea obscura* Döbbeler**
***Wawea fruticulosa* Henssen & Kantvilas**
Xanthoparmelia alexandrensis Elix &
 Johnston
X. amphixantha (Müll.Arg.) Hale
X. amplexula (Stirton) Elix &
 Johnston
X. antleriformis (Elix) Elix &
 Johnston
X. arapilensis (Elix & P.Armstr.)
 Filson
X. australasica Galloway
X. austroconstrictans Elix
X. bungendorensis (Elix) Elix &
 Johnston
X. cheelii (Gyelnik) Hale
X. congesta (Kurok. & Filson) Elix &
 Johnston
X. cordillerana (Gyelnik) Hale
X. dichotoma (Müll.Arg.) Hale
X. digitiformis (Elix & P.Armstr.)
 Filson
X. dissitifolia Kurok. ex Elix &
 Johnston
X. elixii Filson
X. exillima (Elix) Elix & Johnston
X. filarszkyana (Gyelnik) Hale
X. flaviscentireagens (Gyelnik)
 Galloway
X. furcata (Müll.Arg.) Hale

- X. glareosa* (Kurok. & Filson) Elix & Johnston
X. hybridiza Elix & Johnston
 [*X. incerta* (Kurok. & Filson) Elix & Johnston]
X. isidiigera (Müll.Arg.) Elix & Johnston
X. isidiosa (Müll.Arg.) Elix & Johnston
 [*X. lineola* (Berry) Hale]
X. mannumensis (Elix) Elix & Johnston
X. metaclystoides (Kurok. & Filson) Elix & Johnston
X. mexicana (Gyelnik) Hale
X. mougeotina (Nyl.) Galloway
X. multipartita (R.Br.) Hale
X. neotinctina (Elix) Elix & Johnston
X. notata (Kurok.) Hale
X. phillipsiana (Filson) Elix & Johnston
X. pseudohypoleia (Elix) Elix & Johnston
X. pustuliza (Elix) Elix & Johnston
 [*X. remanens* (Elix) Elix & Johnston]
X. rubrireagens (Gyelnik) Hale
X. scabrosa (Taylor) Hale
X. streimannii (Elix & P. Armstr.) Elix & Johnston
X. subnuda (Kurok.) Hale
X. substrigosa (Hale) Hale
X. taractica (Krempelh.) Hale
X. tasmanica (J.D.Hook. & Taylor) Hale
X. tegeta Elix & Johnston
X. thamnoides (Kurok.) Hale
X. trirosea Elix
X. verdonii Elix & Johnston
***X. vicaria* Elix & Johnston**
X. willisii (Kurok. & Filson) Elix & Johnston
Xanthoria ligulata (Körber) P.James
X. parietina (L.) Th.Fr.
Zahlbrucknerella calcarea (Herre) Herre

DELETIONS

- Arthonia complanata* Fée. This record was based on a collection by W.A. Weymouth which has been redetermined as *Arthothelium ilicinum* (Taylor) P.James.
Arthonia epipastoides Leighton = *A. radiata* (Pers.) Ach.
***Arthonia multiformis* Shirley** = *A. ilicina* Taylor
Arthonia tumidula (Ach.) Ach. = *A. cinnabarina* (DC.) Wallr.
Arthopyrena sublittoralis (Leighton) Arnold. This record refers to *Pyrenocollema halodytes* (Nyl.) R.C.Harris (A. Aptroot pers. comm.).
***Arthothelium ferax* Müll.Arg** = *A. interveniens* (Nyl.) Zahlbr.
Arthothelium ilicinum (Taylor) P.James = *Arthonia ilicina* Taylor
Bacidia luteola (Schrader) Mudd. This name has been misapplied to *B. buchani* (Stirton) Hellbom.
***Bacidia melasemoides* (Jatta) Zahlbr.** = *B. albidoplumbea* (J.D.Hook. & Taylor) Hellbom
Bacidia millegrana (Taylor) Zahlbr. The collection on which this record is based (see Bratt & Cashin 1976) has been redetermined as *B. albidoplumbea* (J.D.Hook. & Taylor) Hellbom (Kantvilas 1993).
***Bacidia otagoensis* (Nyl.) Hellbom var. *tasmanica* (Jatta) Zahlbr.** = *B. albidoplumbea* (J.D.Hook. & Taylor) Hellbom
***Bacidia weymouthii* (Shirley) Zahlbr.** = *B. albidoplumbea* (J.D.Hook. & Taylor) Hellbom
Bactrospora dryina (Ach.) Massal. Not recorded for Tasmania by Egea & Torrente (1993). The species appears to be confined to Europe and North America.
Baeomyces absolutus Tuck. = *Dibaeis absoluta* (Tuck.) Kalb & Gierl
Baeomyces arcuatus Stirton = *Dibaeis arcuata* (Stirton) Kalb & Gierl
***Baeomyces squamarioides* Nyl.** = ***Knightiella splachnirima* (J.D. Hook. & Taylor) Gyelnik**
***Biatora byssacea* Hampe.** The type material of this taxon does not include any lichen (Kantvilas & Elix, unpublished data).

- Buellia polospora* (Leighton) Shirley var. *asperata* Shirley = *Rinodina asperata* (Shirley) Kantvilas**
- Candelariella reflexa* (Nyl.) Lettau. Refers to *C. xanthostigmoides* (Müll.Arg) R.W.Rogers in Australia (Filson 1992a).
- Catillaria grossulina* (Stirton) Zahlbr. Erroneously recorded from Tasmania. The species is known only from Stirton's type collection from Victoria.
- Catinaria grossa* (Pers. ex Nyl.) Vainio = *Megalaria grossa* (Pers. ex Nyl.) Hafellner
- Catinaria pulverea* (Borrer) Vězda & Poelt = *Catillaria pulverea* (Borrer) Lettau
- Cetraria chlorophylla* (Willd.) Vainio = *Tuckermannopsis chlorophylla* (Willd.) Hale
- Chaenotheca chrysocephala* (Turn. ex Ach.) Th.Fr. = *C. chlorella* (Ach.) Müll.Arg.
- Cladonia arbuscula* ssp. *stictica* Ruoss. In Australasia, this taxon is included in *Cladina mitis* (Archer 1992b) and is not accepted until an appropriate combination in the genus *Cladina* is made to accommodate stictic acid-containing populations.
- Cladonia coniodendroides* F.Wilson.** The type material of this taxon has not been located and hence its true identity remains unknown.
- Cladonia crispata* (Ach.) Flotow. Tasmanian specimens belong to *C. crispata* var. *cetrariiformis* (Delise) Vainio.
- Cladonia decurva* Taylor ex Church. Bab. & Mitten = *C. scabriuscula* (Delise) Nyl. (A.W. Archer, pers. comm.).**
- Cladonia subdigitata* Nyl. = *C. ustulata* (J.D.Hook & Taylor) Leighton (See Stenroos 1993).
- Clathroporina eminentior* (Nyl.) Müll. Arg. The Tasmanian record of this essentially tropical taxon is based on Mueller (1887). No authentic material can be located and the record appears to be erroneous (P.M.McCarthy pers. comm.).
- Coelocaulon aculeatum* (Schreb.) Link = *Cetraria aculeata* (Schreb.) Fr. See Kärnefelt *et al.* (1993).
- Collema implicatum* Nyl. Filson (1992b) offers no supporting discussion for his decision to treat this taxon at species rank. Accordingly, in this checklist, this lichen is retained as *C. glaucophthalmum* var. *implicatum* (Nyl.) Degelius after Degelius (1974).
- Crocynia gossipina* (Sw.) Massal. *Crocynia* is a mainly tropical genus (Hawksworth *et al.* 1983) and this name has most probably been misapplied to a species of *Lepraria*.
- Cystocoleus niger* (Huds.) Hariot = *C. ebeneus* (Dillwyn) Thwaites
- Diploschistes subocellatus* (Nyl.) Zahlbr. = *D. ocellatus* (Vill.) Norm. (H.T. Lumbsch, pers. comm.).**
- Heterothecium pauciseptatum* Shirley = *Austroblastenia pauciseptata* (Shirley) Sipman**
- Graphis scripta* (L.) Ach. This name has been misapplied in Tasmania to *G. librata* Knight (Kantvilas & James 1991).
- Laurera megasperma* (Mont.) Zahlbr. var. *tasmanica* (Jatta) Zahlbr. = *Pyrenula ravenellii* (Tuck.) R.C.Harris (McCarthy & Kantvilas 1993a).**
- Lecania vallatula* Jatta = *Bacidia vallatula* (Jatta) Kantvilas**
- Lecidea coromandelica* Zahlbr. = *Poeltiaria coromandelica* (Zahlbr.) Rambold & Hertel
- Lecidea elabens* Fr. All Australian collections are referable to either *L. stuartii* Hampe or *L. subnexa* Stirton (G.Kantvilas & J.Elix, unpublished).
- Lecidea laeta* Stirton = *Pyrrhospora laeta* (Stirton) Hafellner**
- Lecidea lampra* Stirton = *L. stuartii* Hampe (G.Kantvilas & J.Elix, unpublished).
- Lecidea leptocarpa* Nyl. ex Church.Bab. & Mitten = *Paraporpidia leptocarpa* (Church.Bab. & Mitten) Rambold & Hertel**

- Lecidea petraeoides* Nyl. ex Hue = *Protoparmelia petraeoides* (Nyl. ex Hue) Hertel
- Lecidella elaeochroma* (Ach.) Choisy. Erroneously recorded from Tasmania; specimens so named by Kantvilas (1989) are referable to an undescribed genus.
- Leioderma amphibolum* (Knight) Galloway & Jørgensen = *Fuscoderma amphibolum* (Knight) Jørgensen & Galloway
- Megalospora biclipea* (Shirley) Zahlbr. Type specimen lost (Kantvilas 1988) but this species is probably better referred to *Catillaria* or *Megalaria*.
- Megalospora tasmanica* (Jatta) Zahlbr. Sipman (1983) observed that the type specimen has acicular spores and is therefore not a *Megalospora*.
- Megalospora taylori* Dodge = *Megalospora gompholoma* ssp. *fuscolineata* Sipman
- Menegazzia bullata* (Stirton) Bitter. This material is now correctly included under *M. corrugata* P. James.
- Menegazzia circumsorediata* R. Sant. = *M. neozelandica* (Zahlbr.) P. James
- Menegazzia retipora* (Stirton) Bitter = *M. myriotrema* (Müll. Arg.) P. James
- Microthelia analiza* (Stirton) Zahlbr. Incorrectly recorded from Tasmania by Zahlbruckner (1922). Hawksworth (1985a) states that this specimen is from New South Wales and is referable to the fungus, *Didymosphaeria futilis* (Berk. & Broome) Rehm.
- Pannaria mariana* (Fr.) Müll. Arg. This record appears to be very doubtful because the species is essentially tropical-subtropical and occurs in the rainforests of Queensland (Jørgensen & Galloway 1992). The alleged Tasmanian collection (in the Greville Herbarium, E) is attributed to the collector Henderson, a name not connected to any other Tasmanian lichen collections (Kantvilas 1983).
- Pannaria pezizoides* (Web.) Trevisan. Erroneously applied to specimens of *P. decipiens*.
- Pannaria rubiginosa* (Thunb. ex Ach.) Delise. The occurrence of this species in Australia is not supported by recent revisionary studies (e.g. Jørgensen & Galloway 1992).
- Parmelia concors* Krempelh. = *Parmotrema cristiferum* (Taylor) Hale
- Parmelia pseudorelicina* Jatta = *Parmelina pseudorelicina* (Jatta) Kantvilas & Elix
- Parmeliella microphylla* (Sw.) Müll. Arg. The occurrence of this species in Australia is not supported by the recent work of Jørgensen & Galloway (1992).
- Parmeliella rubiginascens* (Nyl.) Müll. Arg. = *P. thysanota* (Stirton) Zahlbr.
- Parmeliella subgranulata* Galloway & Jørgensen. The record of this species from King Island by Galloway & Jørgensen (1987) is incorrect and is based on a poorly developed specimen of *Pannaria elixii* (Jørgensen & Galloway 1992).
- Parmelina stevensiana* Elix & Johnston = *P. pseudorelicina* (Jatta) Kantvilas & Elix
- Parmentaria gregalis* (Knight) Müll. Arg. Refers to *Pyrenula ravenellii* (Tuck.) R. C. Harris in Tasmania (P. M. McCarthy pers. comm.).
- Parmotrema reticulatum* (Taylor) M. Choisy = *Rimelia reticulata* (Taylor) Hale & Fletcher
- Parmotrema subcaperatum* (Krempelh.) Hale = *Rimeliella subcaperata* (Krempelh.) Kurokawa
- Pertusaria aggregata* Müll. Arg. Not present in Tasmania (A. W. Archer, pers. comm.).
- Pertusaria commutata* Müll. Arg. Not present in Tasmania (A. W. Archer, pers. comm.).
- Pertusaria lacerans* Müll. Arg. Not present in Tasmania; Jatta's (1911) record refers to *P. novaezelandiae*.

- Pertusaria leucostoma* (Bernh.) Massal. Not present in Tasmania; all records are referable to *P. gibberosa* and related taxa.
- Pertusaria meridionalis* Müll.Arg. var. *xanthostoma* Müll.Arg. Records of this taxon now refer to *P. leioplacella* Nyl. (Archer & Elix 1992).
- Pertusaria ornatula* Müll.Arg. Not present in Tasmania (A.W. Archer, pers. comm.).
- Pertusaria paratropa* Müll.Arg. Not present in Tasmania (A.W. Archer, pers. comm.).
- Pertusaria superba* Zahlbr. = *P. lophocarpa* Körber
- Pertusaria trypetheliformis* Nyl. Not present in Tasmania (A.W. Archer, pers. comm.).
- Phyllopsora congregans* (Zahlbr.) Galloway = *Trapeliopsis congregans* (Zahlbr.) Brako
- Phyllopsora parvifolia* (Pers.) Müll.Arg. All Tasmanian specimens found under this name are *Neophyllis melacarpa* (F. Wilson) F. Wilson.
- Porina leptaleina* (Nyl.) Müll.Arg. Tasmanian collections are now referred to *P. hyperleptalea* McCarthy & Kantvilas (McCarthy & Kantvilas 1993b).
- Porina nucula* Ach. Tasmanian collections are now referred to *P. sylvatica* McCarthy & Kantvilas (McCarthy & Kantvilas 1993b).
- Pseudopyrenula galactina* Shirley = *Pyrenula galactina* (Shirley) Kantvilas**
- Psoroma hirsutulum* Nyl. ex Crombie. Not present in Tasmania (Jørgensen & Galloway 1992).
- Psoroma paleaceum* (Fr.) Nyl. = *P. hypnorum* var. *paleaceum* (Fr.) Rostrup
- Psoroma sphinctrinum* (Mont.) Nyl. Not present in Tasmania (Jørgensen & Galloway 1992).
- Pyrenula kunthii* (Fée) Fée = *P. marginata* J.D. Hook.
- Pyrgillocarpon indicum* (Krempeh.) Nád. in Tibell = *Pyrgillus indicus* (Krempeh.) Aptroot
- Rinodina dissa* (Stirton) Mayrhofer = *Hafellia dissa* (Stirton) Mayrhofer & Sheard**
- Schismatomma congerens* (Nyl.) Zahlbr.** According to Tehler (1993), this taxon belongs in a genus of the Lecanorales and hence, for the time being, it is included herein under its basionym ***Platygrapha congerens* Nyl.**
- Siphulastrum triste* Müll.Arg. Not present in Tasmania (Jørgensen & Galloway 1992). Probably conspecific with or misapplied to *S. mamillatum*.
- Sphaerophorus flaccidus* Kantvilas & Wedin = *Bunodophoron flaccidum* (Kantvilas & Wedin) Wedin**
- Sphaerophorus imshaugii* Ohlsson = *Bunodophoron imshaugii* (Ohlsson) Wedin
- Sphaerophorus insignis* Laurer = *Bunodophoron insigne* (Laurer) Wedin
- Sphaerophorus macrocarpus* Ohlsson = *Bunodophoron macrocarpum* (Ohlsson) Wedin
- Sphaerophorus melanocarpus* (Sw.) DC. = *Bunodophoron australe* (Laurer) Massal.
- Sphaerophorus murrayi* Ohlsson = *Bunodophoron murrayi* (Ohlsson) Wedin
- Sphaerophorus notatus* Tibell = *Bunodophoron notatum* (Tibell) Wedin
- Sphaerophorus patagonicus* (Dodge) Ohlsson = *Bunodophoron patagonicum* (Dodge) Wedin
- Sphaerophorus ramulifer* Lamb = *Bunodophoron ramuliferum* (Lamb) Wedin
- Sphaerophorus scrobiculatus* (Church. Bab.) Sato = *Bunodophoron scrobiculatum* (Church. Bab.) Wedin
- Sphaerophorus tener* Laurer = *Leifidium tenerum* (Laurer) Wedin
- Sphaerophorus tibellii* Wedin = *Bunodophoron tibellii* (Wedin) Wedin
- Stereocaulon leptaleum* Nyl. = *S. corticatulum* Nyl.**
- Stereocaulon macrocarpoides* Nyl. = *S. ramulosum* (Sw.) Räscher**
- Toninia microlepis* (Müll.Arg.) Zahlbr. This taxon belongs in the genus *Buellia* (Timdal 1991).
- Usnea capillacea* Motyka = *U. articulata* (L.) Hoffm. (G.N. Stevens in litt.).

- Usnea ceratina* Ach. Not present in Tasmania (G.N.Stevens *in litt.*).
Usnea contexta Motyka = *U. articulata* (L.) Hoffm. (G.N.Stevens *in litt.*)
Usnea hirta (Müll.Arg.) Weber *emend.* Motyka. Not present in Tasmania (G.N.Stevens *in litt.*).
Usnea leprosa Motyka. Not present in Tasmania (G.N.Stevens *in litt.*); misapplied to *U. oncodes*.
Usnea ramulosissima Stevens & Rogers. Not present in Tasmania (Stevens 1992).
Usnea scabrida Taylor. Refers to *U. scabrida* ssp. *tayloriana* Stevens in Tasmania.
Usnea tasmanica (Müll.Arg.) Zahlbr. = *U. baileyi* (Stirton) Zahlbr.
Usnea torquescens Stirton = *U. angulata* Ach. (G.N.Stevens *in litt.*).
Usnea trichodea Ach. Not present in Tasmania (G.N.Stevens *in litt.*).
Xanthoparmelia adhaerens (Nyl.) Hale. This name now belongs in the African genus *Karooia* (Hale 1989). All Australian material is referable to *Xanthoparmelia xanthomelaena*.
Xanthoparmelia constrictans (Nyl. ex Crombie) Hale. This species is confined to South Africa and all Australian records refer to *X. austroconstrictans* Elix (see Elix 1993).
Xanthoria spinosa (J.D.Hook. & Taylor) Du Rietz = *Teloschistes spinosus* (J.D.Hook. & Taylor) J.Murray
X. spinulosa (Krempelh.) Hillm. = *Teloschistes spinosus* (J.D.Hook. & Taylor) J.Murray

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APPENDIX 1 — NEW RECORDS FOR TASMANIA

1. *Arthrorhaphis grisea* Th.Fr.

This species occurs on the thallus of *Baeomyces heteromorphus* and is recognised by its black lecideine apothecia to c. 0.5 mm wide and by its multiseptate, acicular spores, 50–70 × 2–2.5 µm.

SPECIMENS EXAMINED: *Tasmania* — Hartz Mountains, on plateau, 800 m a.s.l., 9 Aug. 1981, *G.Kantvilas* 522/81 (HO, BM); McPartlan Pass, 360 m a.s.l., 8 Mar. 1991, *G.Kantvilas* 82/91 (HO, GZU); Lake Osborne Track, 9 Aug. 1981, *P.W.James* s.n. (HO, BM).

2. *Biatoropsis usnearum* Räsänen

This widely distributed gall-forming lichenicolous fungus occurs on the thallus of species of *Usnea*.

SPECIMEN EXAMINED: *Tasmania* — Brady's Sugarloaf, 980 m a.s.l., on thallus of *Usnea torulosa*, growing on dolerite outcrops in eucalypt forest, 11 Jan. 1992, *G.Kantvilas* 90/92 (HO).

3. *Buellia punctata* (Hoffm.) Massal.

SPECIMEN EXAMINED: *Tasmania* — between Shelly Point and Buxton Point, south of Swansea, on driftwood on coastal rocks, 18 Feb. 1985, *H.Mayrhofer* 9641 & *H.Hertel* (GZU).

4. *Candelariella xanthostigmoides* (Müll.Arg.) R.W.Rogers

Referred to in previous Tasmanian literature as *C. reflexa* (Nyl.) Lettau and recognised by its granular, corticolous thallus and eight-spored asci (see Filson 1992a). The species is common in dry sclerophyll forest.

SELECTED SPECIMENS EXAMINED: *Tasmania* — Carr Villa Cemetery, Launceston, 80 m a.s.l., 6 Feb. 1992, *A.V.Ratkowsky* s.n. (HO); Hummocky Hills, 200–470 m a.s.l., *A.V.Ratkowsky* s.n. (HO); Brown Mountain Road, Campania, 220 m a.s.l. 16 Aug. 1981, *G.Kantvilas* & *P.W.James* 742/81 (HO, BM); Hunting Grounds, c. 4.5 km west of Dysart, 400 m a.s.l., 7 Aug. 1981, *G.Kantvilas* & *P.W.James* 461/81 (HO, BM).

5. *Cladonia subsubulata* Nyl.

This species name is used herein to accommodate *C. crispata*-type specimens containing thamnolic acid with additional barbatic acid in their apothecia. Archer (1992b) includes such material within *C. crispata* var. *ceptrariiformis*. However, that taxon contains squamatic acid as the major chemical constituent (Stenroos 1988). In Tasmania at least, the two chemical races show subtle morphological differences and, pending further study, each is treated as a distinct taxon. *C. subsubulata* is common in Tasmania in wet heathland, sedgeland and forest, and occurs on peat, soil or, occasionally, on wood. It ranges from lowland to alpine altitudes. In some earlier literature it was also referred to as *C. aueri* Räsänen.

SELECTED SPECIMENS EXAMINED: *Tasmania* — Mt Dial, 480 m a.s.l., 25 May 1991, *G.Kantvilas* 239/91 (HO); Mt Wedge, 1140 m a.s.l., 17 Oct. 1981, *G.Kantvilas* 859/81 (HO, BM); Twilight Tarn, 1000 m a.s.l., 9 Mar. 1980, *G.Kantvilas* 5/80 (HO, BM); Pelion Plains, 890 m a.s.l., 11 Mar. 1992, *G.Kantvilas* 255/92 (HO); Jane River Track, c. 1 km north of Loddon River, 520 m a.s.l., 1 Feb. 1986, *G.Kantvilas* 29/86 (HO, NSW).

6. *Collema fasciculare* var. *microcarpum* (Müll. Arg.) Degelius

Recognised by its pulvinate thallus with abundant, granular to wart-like isidia, minute apothecia to c. 0.3 mm diam., and acicular spores to 170 µm long (see Degelius 1974 for full description), this species is common in wet scrub at the margins of rainforest.

SELECTED SPECIMENS EXAMINED: *Tasmania* — North-East Ridge Track to Mt Anne, 12 Dec. 1982, *G.Kantvilas* 295/82 (HO); Mt Dundas Track, 460 m a.s.l., 14 Dec. 1988, *G.Kantvilas* 540/88 (HO); Junction Creek, 260 m a.s.l., 14 Dec. 1984, *G.Kantvilas* 723/84 (HO).

7. *Massalongia carnososa* (Dickson) Körber

This bipolar species resembles a species of *Parmeliella* but is distinguished by its small reddish brown thallus and septate spores [see Galloway (1985) and Purvis *et al.* (1992)] for full descriptions. It is rare in Tasmania where it occurs amongst mosses on rocks in alpine woodland.

SPECIMEN EXAMINED: *Tasmania* — Ouse River near Liawenee Canal, 1080 m a.s.l., 26 May 1983, *G.Kantvilas* 67/83 (HO).

8. *Omphalina umbellifera* (L. ex Fr.) Quélet

See Lumbsch & Ewers (1992) for a brief discussion of this lichenised basidiomycete in Australia. The species has a granular *Botrydina*-type thallus and has been frequently illustrated in handbooks of fungi under the synonym, *O. ericetorum* (Fr.) M.Lange.

SPECIMEN EXAMINED: *Tasmania* — Sumac Road, Spur 2, south of Arthur River, 170 m a.s.l., on rotting log of *Nothofagus cunninghamii* in rainforest, 30 Jan. 1992, *G.Kantvilas*, *B.Fuhrer* & *J.Jarman* 86/92 (HO).

9. *Pannaria subimmixta* Knight

Known also from eastern Australia and New Zealand, this species is locally common in the drier south-eastern parts of Tasmania where it occurs on sandstone outcrops in dry sclerophyll forest (see Jørgensen & Galloway 1992 full description).

SPECIMENS EXAMINED: *Tasmania* — Grass Tree Hill, 400 m a.s.l., 29 Sep. 1981, *G.Kantvilas* 1009/81 (HO); Hunting Grounds at Dysart, 400 m a.s.l., 7 Aug. 1981, *G.Kantvilas* & *P.James* 467/81 (BM, HO); Levendale, 360 m a.s.l., 1 Aug. 1981, *G.Kantvilas* 445/81 (BM, HO).

10. *Rinodina pyrina* (Ach.) Arn.

This species occurs very abundantly on a variety of exotic trees and shrubs in parks and gardens.

SPECIMENS EXAMINED: *Tasmania* — The Cascades, Hobart, 120 m a.s.l., on *Malus* and *Ficus* in garden, 13 Aug. 1989, *G.Kantvilas* 208/89, 209/89 (HO); same locality, on *Salix babylonica* in pasture, 17 Apr. 1990, *G.Kantvilas* 180/90 (HO).

11. *Sphaerophorus tibellii* Wedin

For a summary of diagnostic characters of this rare species, see Kantvilas & Wedin (1992) (under 'species A') and Wedin (1992).

SPECIMEN EXAMINED: *Tasmania* — Arve Loop, near Geeveston, 360 m a.s.l., 3 May 1981, *G.Kantvilas* 271/81 (HO).

12. *Usnea confusa* Asahina

SPECIMENS EXAMINED: *Tasmania* — Balts Spur, Tasman Peninsula, 7 Jan. 1983, *G.Kantvilas* 11/83 (HO); Newmans Creek, 16 Mar. 1891, *W.A.Weymouth* 12 p.p. (HO).

13. *Usnea nidulifera* Motyka

SPECIMENS EXAMINED: *Tasmania* — Cape Sorell, June 1974, *M.Gilbert* (HO); Sumac Road, Spur 2, south of Arthur River, 170 m a.s.l., 24 Nov. 1980, *G.Kantvilas* 668/80 (HO).

14. *Usnea oncodes* Stirton

This appears to be one of the most common and frequently collected species of *Usnea* from wet forests; it contains usnic and salazinic acids.

SPECIMENS EXAMINED: *Tasmania* — Lake Fenton, 1000 m a.s.l., 26 Mar. 1980, *G. Kantvilas* 59/80 (BM, COLO, HO); Port Davey, 19 Mar. 1980, *S.J.Jarman* 61/80 (HO, BM); Tiger Road, Florentine Valley, 550 m a.s.l., 6 Sep. 1980, *G.Kantvilas* 362/80 (HO, BM).

15. *Usnea pycnoclada* Vainio

SPECIMEN EXAMINED: *Tasmania* — Calverts Lagoon, 31 Aug. 1980, *G. Kantvilas* 339/80 p.p. (HO).

16. *Usnea subeciliata* (Motyka) Swinsc. & Krog

SPECIMENS EXAMINED: *Tasmania* — Diddleum Plains, 640 m a.s.l., 3 Nov. 1980, *G. Kantvilas* 534/80 (HO, BM); Julius River, 120 m a.s.l., 26 Nov. 1980,

G.Kantvilas 696/80 (HO, BM); Trevallyn State Recreation Area, 200 m a.s.l., 12 Feb. 1992, *A.V.Ratkowsky s.n.* (HO).

17 *Usnea undulata* Stirton

SPECIMENS EXAMINED: *Tasmania* — Julius River, 120 m a.s.l., 26 Nov. 1980, *G.Kantvilas* 695/80 (HO, BM); Telopea Road near Ben Nevis, 870 m a.s.l., 5 Nov. 1980, *G.Kantvilas* 549/80 B (HO); Mount Barrow Chalet, 600 m a.s.l., 30 Jan. 1965, *G.C.Bratt & M.H.Bratt* 3224 (HO).

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